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February 1980 **ACM SIGART Bulletin**, Issue 70
Full text available: pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

2 Relaxation techniques for parsing grammatically Ill-formed input in Natural Language Understanding Systems
Stan C. Kwasny, Norman K. Sondheimer
April 1981 **Computational Linguistics**, Volume 7 Issue 2
Full text available: pdf(1.02 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

This paper investigates several language phenomena either considered deviant by linguistic standards or insufficiently addressed by existing approaches. These include co-occurrence violations, some forms of ellipsis and extraneous forms, and conjunction. Relaxation techniques for their treatment in Natural Language Understanding Systems are discussed. These techniques, developed within the Augmented Transition Network (ATN) model, are shown to be adequate to handle many of these cases.

3 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91
Full text available: pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

4 Translator writing systems
Jerome Feldman, David Gries
February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available: pdf(4.47 MB) Additional Information: full citation, abstract, references, citings

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

5 The berkeley UNIX consultant project
Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **Computational Linguistics**, Volume 14 Issue 4

Full text available: pdf(4.41 MB) Publisher Site Additional Information: full citation, abstract, references, citings

UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX[2] operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation.The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre ...

6 Spoken dialogue technology: enabling the conversational user interface
Michael F. McTear
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

7 The Emotional Wardrobe
Lisa Stead, Petar Goulev, Caroline Evans, Ebrahim Mamdani
July 2004 **Personal and Ubiquitous Computing**, Volume 8 Issue 3-4

Full text available: pdf(492.42 KB) Additional Information: full citation, abstract, index terms

Since the industrial revolution, fashion and technology have been linked through the textile and manufacturing industries, a relationship that has propelled technical innovation and aesthetic and social change. Today, a new alliance is emerging through the integration of electronic technology and smart materials on the body. This study addresses the integration of technology with clothing from a fashion perspective, and examines its expressive and

interactive potential. It proposes the concept o ...

Keywords: Affective computing, AffectiveWare, Electroluminescence, Emotional Wardrobe, Emotional design, Fashion

8 A finite and real-time processor for natural language
Glenn D. Blank
October 1989 **Communications of the ACM**, Volume 32 Issue 10
Full text available: pdf(2.10 MB) Additional Information: full citation, abstract, references, index terms

People process natural language in real time and with very limited short-term memories. This article describes a computational architecture for syntactic performance that also requires fixed finite resources.

9 Intelligent computer systems for criminal sentencing
Uri J. Schild
May 1995 **Proceedings of the 5th international conference on Artificial intelligence and law**
Full text available: pdf(843.19 KB) Additional Information: full citation, references, index terms

10 Sequential thematic organization of publications: how to achieve coherence in proposals and reports
J. R. Tracey, D. E. Rugh, W. S. Starkey
August 1999 **ACM SIGDOC Asterisk Journal of Computer Documentation**, Volume 23 Issue 3
Full text available: pdf(3.80 MB) Additional Information: full citation, index terms

11 An implementable semantics for comparative constructions
Manny Rayner, Amelie Banks
June 1990 **Computational Linguistics**, Volume 16 Issue 2
Full text available: pdf(2.42 MB) Publisher Site Additional Information: full citation, abstract, references, citings

We describe a comprehensive treatment of the syntax and semantics of comparative constructions based on theoretical work by Pinkham, which can be implemented in a relatively straightforward fashion within a feature-based phrase-structure grammar. Comparatives are divided up into "clausal" and "phrasal" constructions; in contrast to most previous theories, however, phrasals are not regarded as reduced forms of clausals. We begin by defining a Montagovian semantics for phrasal comparatives that di ...

12 Natural language with discrete speech as a mode for human-to-machine
Alan W. Biermann, Robert D. Rodman, David C. Rubin, J. Francis Heidlage
June 1985 **Communications of the ACM**, Volume 28 Issue 6
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A voice interactive natural language system, which allows users to solve problems with spoken English commands, has been constructed. The system utilizes a commercially available discrete speech recognizer which requires that each word be followed by approximately a 300 millisecond pause. In a test of the system, subjects were able to learn its use after about two hours of training. The system correctly processed about 77 percent

of the over 6000 input sentences spoken in problem-solving se ...

13 Bidirectional contextual resolution
Stephen G. Pulman
December 2000 **Computational Linguistics**, Volume 26 Issue 4
Full text available: pdf(2.20 MB) Additional Information: full citation, abstract, references
Publisher Site

This paper describes a formalism and implementation for the interpretation and generation of sentences containing context-dependent constructs like determiners, pronouns, focus, and ellipsis. A variant of quasi-logical form is used as an underspecified meaning representation, related to resolved logical forms via conditional equivalences. These equivalences define the interpretation of contextually dependent constructs with respect to a given context. Higher-order unification and abduction are u ...

14 The FINITE STRING newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1986 **Computational Linguistics**, Volume 12 Issue 1
Full text available: pdf(2.24 MB) Additional Information: full citation
Publisher Site

15 User modeling I: What would they think?: a computational model of attitudes
Hugo Liu, Pattie Maes
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**
Full text available: pdf(350.99 KB) Additional Information: full citation, abstract, references, index terms

A key to improving at any task is frequent feedback from people whose opinions we care about: our family, friends, mentors, and the experts. However, such input is not usually available from the right people at the time it is needed most, and attaining a deep understanding of someone else's perspective requires immense effort. This paper introduces a technological solution.We present a novel method for automatically modeling a person's attitudes and opinions, and a proactive interface called "Wh ...

Keywords: affective interfaces, affective memory, user modeling

16 A history of the SNOBOL programming languages
Ralph E. Griswold
January 1978 **ACM SIGPLAN Notices , The first ACM SIGPLAN conference on History of programming languages**, Volume 13 Issue 8
Full text available: pdf(3.56 MB) Additional Information: full citation, abstract, references, index terms

Development of the SNOBOL language began in 1962. It was followed by SNOBOL2, SNOBOL3, and SNOBOL4. Except for SNOBOL2 and SNOBOL3 (which were closely related), the others differ substantially and hence are more properly considered separate languages than versions of one language. In this paper historical emphasis is placed on the original language, SNOBOL, although important aspects of the subsequent languages are covered.

17 Lexical cohesion computed by thesaural relations as an indicator of the structure of text
Jane Morris, Graeme Hirst
March 1991 **Computational Linguistics**, Volume 17 Issue 1

Full text available: pdf(1.72 MB) Publisher Site   Additional Information: full citation, abstract, references, citings

In text, lexical cohesion is the result of chains of related words that contribute to the continuity of lexical meaning. These lexical chains are a direct result of units of text being "about the same thing," and finding text structure involves finding units of text that are about the same thing. Hence, computing the chains is useful, since they will have a correspondence to the structure of the text. Determining the structure of text is an essential step in determining the deep meaning of the t ...

18 The Computer in the Humanities and Fine Arts
Sally Yeates Sedelow
June 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 2

Full text available: pdf(2.01 MB)   Additional Information: full citation, references, citings, index terms

19 Contributed papers: A semantics and pragmatics for the pluperfect
Alex Lascarides, Nicholas Asher
April 1993 **Proceedings of the sixth conference on European chapter of the Association for Computational Linguistics**

Full text available: pdf(903.63 KB) Publisher Site   Additional Information: full citation, abstract, references, citings

We offer a semantics and pragmatics of the pluperfect in narrative discourse. We examine in a formal model of implicature, how the reader's knowledge about the discourse, Gricean-maxims and causation contribute to the meaning of the pluperfect. By placing the analysis in a theory where the interactions among these knowledge resources can be precisely computed, we overcome some problems with previous Reichenbachian approaches.

20 Fact Retrieval and Deductive Question-Answering Information Retrieval Systems
William S. Cooper
April 1964 **Journal of the ACM (JACM)**, Volume 11 Issue 2

Full text available: pdf(1.78 MB)   Additional Information: full citation, abstract, references, citings, index terms

Information Retrieval systems may be classified either as Document Retrieval systems or Fact Retrieval systems. It is contended that at least some of the latter will require the capability for performing logical deductions among natural language sentences. The problem of developing systems of logical inference for natural languages is discussed, and an example of such an analysis of a sublanguage of English is presented. An experimental Fact Retrieval system which incorporates this analysis ...

Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10 next

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	1774	((geometr$5 or graph$5 or line$1 or topolog$6 or dtructur$3) near5 pattern$1) same (compar$6 or match$3 or similar$5 or collat$4) same (standard or known or model$1 or template$1 or prototype$1)	USPAT	2005/06/08 14:31	
2	BRS	L2	368	1 same (pose$1 or posture$1 or position$3 or attitude)	USPAT	2005/06/08 14:38	
3	BRS	L3	124	2 same imag$3	USPAT	2005/06/08 14:33	
4	BRS	L4	31	3 same (shape$1 or form or figure)	USPAT	2005/06/08 14:35	
5	BRS	L6	6	4 same ((input$5 or source or test or run-time or runtime) near3 (image$1 or pattern$1))	USPAT	2005/06/08 14:36	
6	BRS	L5	5	4 same (edge$4 or boundar$3 or outline$1)	USPAT	2005/06/08 14:37	
7	BRS	L7	2706	(pattern$1 near3 (template$1 or known or standard or model$1)) and ((true or start$3 or initial$5 or begin$5) near2 (pose$1 or posture$1 or position$3 or attitude))	USPAT	2005/06/08 14:40	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
8	BRS	L8	180	(pattern$1 near3 (template$1 or known or standard or model$1)) same ((true or start$3 or initial$5 or begin$5) near2 (pose$1 or posture$1 or position$3 or attitude))	USPAT	2005/06/08 14:40	
9	BRS	L9	27	8 same (match$3 or similar$5)	USPAT	2005/06/08 14:40	
10	BRS	L10	3	9 same imag$3	USPAT	2005/06/08 14:41	
11	BRS	L11	9	(model$1 near2 pattern$1) same ((initial$7 or start$3 or begin$4 or true) near3 (pose or posture or position))	USPAT	2005/06/08 14:56	
12	IS&R	L12	3938	(382/103,151,159,181,190,199,203,209,216,218,219,291).CCLS.	USPAT	2005/06/08 15:00	
13	IS&R	L13	375	(382/149).CCLS.	USPAT	2005/06/08 15:00	
14	IS&R	L14	332	(348/135).CCLS.	USPAT	2005/06/08 15:01	
15	BRS	L16	0	9 and 14	USPAT	2005/06/08 15:01	
16	BRS	L17	0	9 and 13	USPAT	2005/06/08 15:01	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
17	BRS	L18	6552	geometr$6 same (model$1 or template$1 or known or stored) same (match$3 or similar$6)	USPAT	2005/06/08 15:02	
18	BRS	L19	18	18 same pose	USPAT	2005/06/08 15:03	
19	BRS	L20	2	9 and 19	USPAT	2005/06/08 15:15	
20	BRS	L21	1797	((clear or true or correct or refin$5 or clean or perfect or smooth) near2 (pose or posture or attitude))	USPAT	2005/06/08 16:33	
21	BRS	L22	127	21 same (match$3 or similar$5)	USPAT	2005/06/08 15:17	
22	BRS	L23	7	22 same (boundar$3 or edge$4 or outline$1)	USPAT	2005/06/08 15:18	
23	BRS	L24	146	21 same imag$3	USPAT	2005/06/08 15:18	
24	BRS	L25	3	1 and 24	USPAT	2005/06/08 15:20	
25	BRS	L26	37	(geometr$6 near3 pattern$1) same (match$3 or similar$5) same ((template$1 or model$1 or known or standard) near3 pattern$1)	USPAT	2005/06/08 15:21	
26	BRS	L27	2	21 and 26	USPAT	2005/06/08 15:22	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
27	BRS	L28	195	21 same (error$1 or noise$1 or irregular$5 or impur$5)	USPAT	2005/06/08 15:23	
28	BRS	L29	195	21 same (clutter$1 or clastter$1 or error$1 or nois$1 or irregular$5 or impur$5)	USPAT	2005/06/08 15:24	
29	BRS	L30	7	29 same (match$3 near5 (pattern$1 or image$1))	USPAT	2005/06/08 15:24	
30	BRS	L31	3	1 same (train$3 near3 image$1)	USPAT	2005/06/08 16:31	
31	BRS	L32	6	21 and (geometr$4 near2 pattern$1)	USPAT	2005/06/08 16:35	
32	BRS	L33	59	2 same (boundar$3 or edge$3 or outline$1)	USPAT	2005/06/08 16:35	
33	BRS	L34	24	33 same imag$3	USPAT	2005/06/08 16:36	
34	BRS	L35	1	34 same train$4	USPAT	2005/06/08 16:36	
35	BRS	L36	11	((geometr$4 or polygon$1 or curv$2 or line$1) near3 pattern$1) same (model$1 or template$1 or known) same (pose or attitude or posture$1) same imag$3	USPAT	2005/06/08 16:37	
36	BRS	L37	6	12 and 36	USPAT	2005/06/08 16:37	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
37	BRS	L40	4	((pose or attitude or posture$1) near2 refin$6) same imag$3 same (boundar$3 or edge$1)	USPAT	2005/06/08 16:41	